

Anderson Associates

Broadcast Engineering Consultants

**WMXB
Tuscaloosa, AL
1280 kHz
#68420**

APPLICATION FOR ENGINEERING STA

STA filed via email in accordance with Commission procedures. In the absence of a form, the following information is provided in an attempt to fulfill STA filing requirements.

Applicant:

**Lawson of Tuscaloosa, Inc.
P. O. Box 70427
jwlawson@bellsouth.net
205-345-4787**

**WMXB 1280 kHz
Facility #68420
FRN 0009937590**

Purpose:

The applicant has lost the licensed site for WMXB and must operate from a temporary site under an STA until a permanent location can be obtained and appropriate applicants filed.

Certification:

The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to §5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. §862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under §1.2002(c) of the rules, 47 CFR . See §1.2002(b) of the rules, 47 CFR §1.2002(b), for the definition of "party to the application" as used in this certification §1.2002(c). The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.

James Lawson, President

Anderson Associates

Broadcast Engineering Consultants

Technical data and exhibits for requested STA:

WMXB

1280 kHz

Facility #68420

0.1 kW Day/ 0.030 kW Night

Efficiency - 308.4 mV/m/km/kW worst case assuming 200 foot tower and 120 ground radials of 200 feet each,

Site: N 33-12-16.6 W 87-31-26 (NAD 27)

Antenna type: 200 foot long wire dipole mounted 60 feet above ground and suspended between two trees.

This Technical Report is provided in support of an application for an STA for station WMXB on 1280 kHz (FCC facility # 68420). An STA is requested to operate at a temporary site with 100 Watts Day and 30 Watts Night by exciting a 200 ft long wire dipole.

The following exhibits are provided:

- A- Vertical sketch
- B- Map demonstrating that the STA 0.5 mV/m is contained within the licensed 0.5 mV/m
- C- Night interference study

RF determination:

The 0.1 kW, 200 foot long wire is 60 feet above ground. It will clearly pose no RF exposure beyond general population limits since a 200 ft (0.26λ) antenna would only require a fence within 1 meter or less based on the Commission's RF table from form 301.

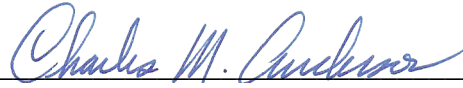
TABLE 2. Predicted Distances for Compliance with FCC Limits: 0.21-0.4 Wavelength

Frequency (kHz)	Transmitter Power (kW)			
	50	10	5	1
	Predicted Distance for Compliance with FCC Limits (meters)			
535-740	4	2	2	1
750-940	4	2	2	1
950-1140	4	2	2	1
1150-1340	4	2	2	1
1350-1540	4	2	2	1
1550-1705	5	2	2	1

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If any additional technical information is required please contact the undersigned.

A handwritten signature in blue ink, reading "Charles M. Anderson", is positioned above a horizontal line.

Charles M. Anderson 1-25-2022
270-535-4432
cmanderson43@yahoo.com

EXHIBIT A - WMXB STA ANTENNA

The WMXB 1280 kHz STA antenna is a 200 foot long wire dipole stretched between two trees at 60 feet above ground level.

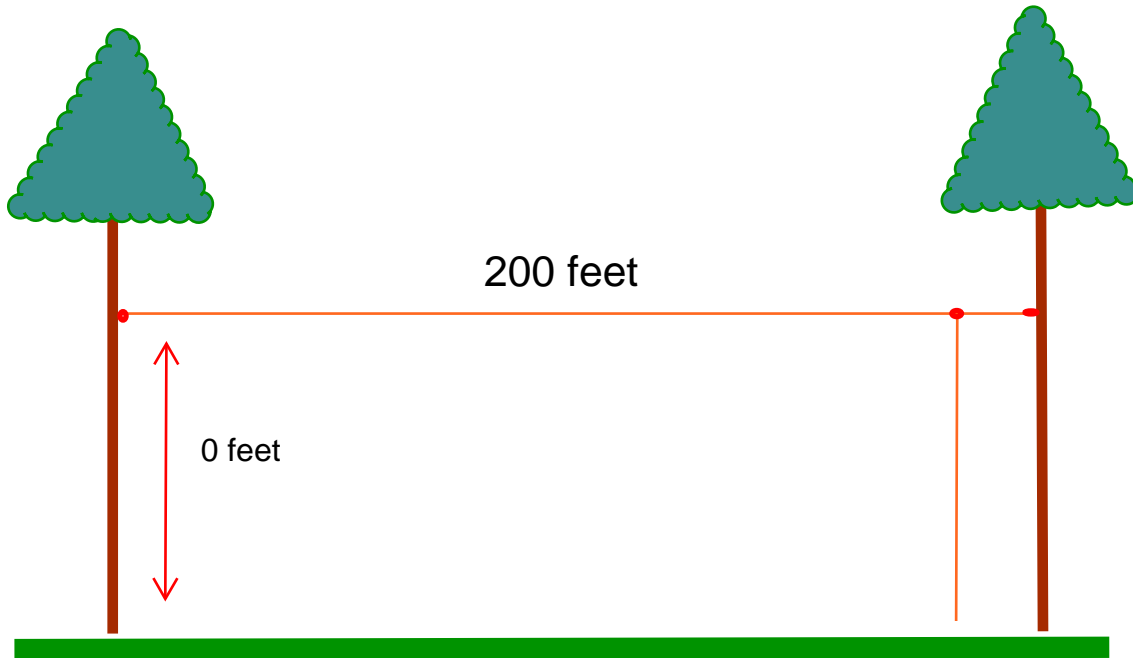


EXHIBIT B

WMXB
Freq: 1280 kHz
Class: B
Latitude: 33-13-07 N
Longitude: 087-34-05 W
Power: 5 kW
RMS: 308.99 mV/m @1km
Towers: 1

WMXB-STA
Freq: 1280 kHz
Class: B
Latitude: 33-12-16 N
Longitude: 087-31-26 W
Power: 0.1 kW
RMS: 308.44 mV/m @1km
Towers: 1

WMXB LICENSED 0.5 V/m DAY

WMXB STA 0.5 mV/m

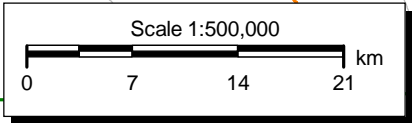
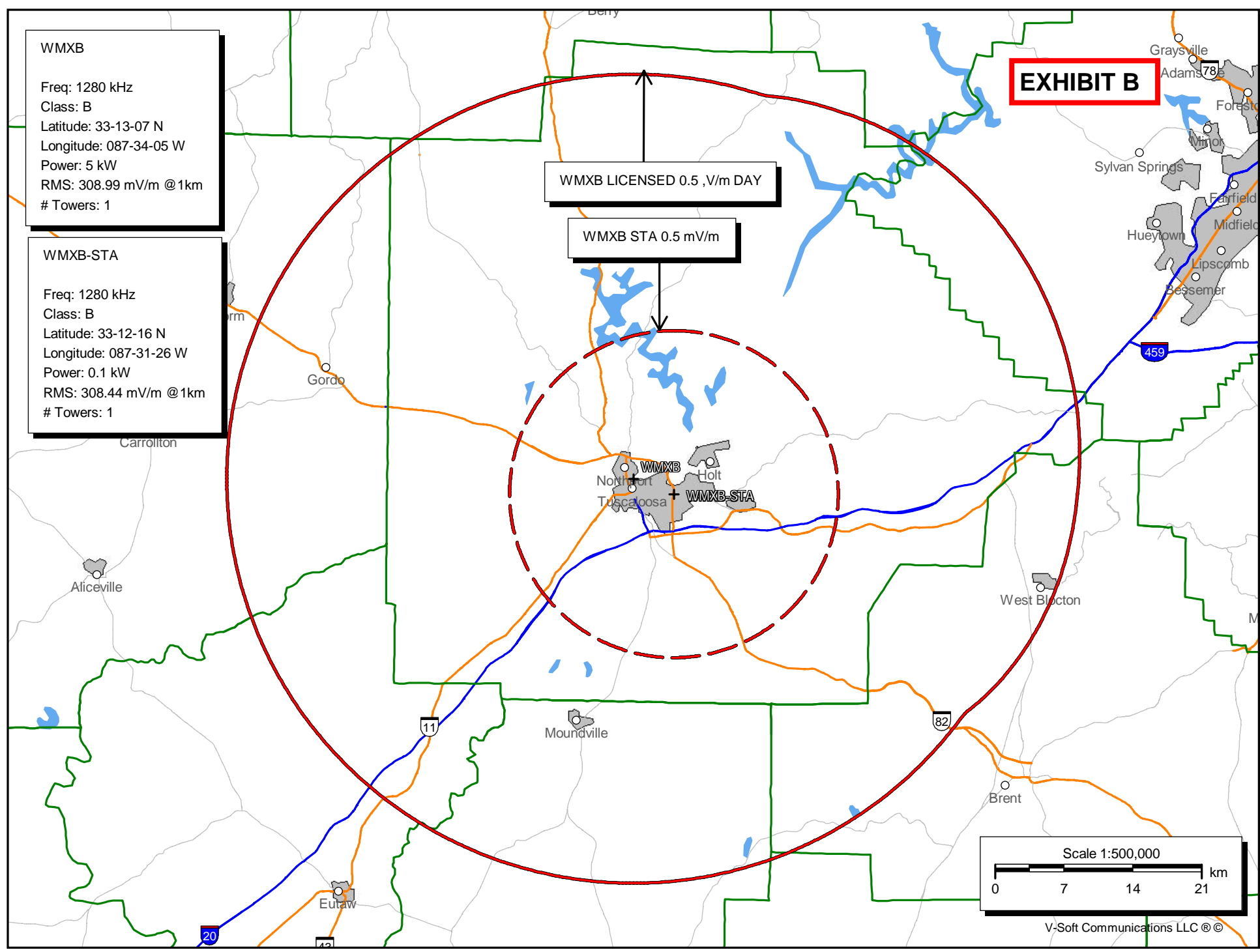


EXHIBIT C Night Allocation Protection Report

Call: WMXB-STA
 Freq: 1280 kHz
 TUSCALOOSA, AL, US
 Hours: D
 Lat: 33-12-16 N
 Lng: 087-31-26 W
 Power: 0.03 kW
 Theo RMS: 308.44 mV/m @ 1km @ 1kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	94.0	0	0	0.0	0.0	0.0	0.0

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
WODT	US	LA	NEW ORLEANS	143.52	1.492	51.97	49.85	2.12
50% = 4.132, 25% = 5.942; ZYJ-455-A=2.63 WALI=2.27 XETIZ/A=2.24 WADO=1.94 HJSO-A=1.70 HRAM-A=1.60 XECAM/A=1.57 YVQS-A=1.50 WMXB=1.49 XESQ/A=1.45								
WGBF	US	IN	EVANSVILLE	109.90	1.955	88.94	51.09	37.85
50% = 5.531, 25% = 7.909; WALI=5.53 WHIO=2.36 WONW=2.27 WANS=2.19 WMCP=2.16 ZYJ-455-A=2.00 WWTC=1.99 WJAY=1.95								
WMCP	US	TN	COLUMBIA	233.75	4.156	88.89	45.00	43.89
50% = 16.622, 25% = 16.622; WGBF=14.64 WALI=7.88								
WWTC	US	MN	MINNEAPOLIS	22.57	1.016	225.18	53.32	171.86
50% = 3.114, 25% = 4.065; KOIL=2.70 KNWC=1.55 ZYJ-455-A=1.42 WIRL=1.36 WODT=1.35 WBIG=1.07								
WANS	US	SC	ANDERSON	130.49	7.025	269.17	50.35	218.82
50% = 13.33, 25% = 18.554; WGBF=8.66 WALI=7.30 WMXB=7.03 WODT=6.59 WUZZ=6.06 WJAY=5.91 WADO=5.58 WMCP=4.51								
WUZZ	US	PA	NEW CASTLE	37.03	2.059	278.06	53.09	224.97
50% = 5.386, 25% = 8.398; WSUX=3.29 WADO=3.16 WONW=2.87 WHTK=2.66 WGBF=2.38 WXYT=2.26 WALI=2.22 WJAY=2.22 WHVR=2.19 CFMB/ =2.18 1280CFBN/ =2.06								